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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/039,054	12/31/2001	Rajeev K. Nalawadi	42390P12867	9089
8791 -	7590 04/06/2006		EXAMINER	
BLAKELY	SOKOLOFF TAYLOR	BAE, JI H		
12400 WILS SEVENTH I	HIRE BOULEVARD	ART UNIT	PAPER NUMBER	
	ES, CA 90025-1030		2115	
	·		DATE MAILED: 04/06/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applic	ation No.	Applicant(s)	· · · · · · · · · · · · · · · · · · ·			
Office Action Summary			9,054	NALAWADI ET A	L.			
			iner	Art Unit				
		Ji H. B		2115				
Period fo	The MAILING DATE of this communic r Reply	ation appears on	the cover sheet w	ith the correspondence a	ddress			
WHIC - Exter after - If NO - Failui Any r	CRTENED STATUTORY PERIOD FO HEVER IS LONGER, FROM THE MA sisions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commu period for reply is specified above, the maximum statu te to reply within the set or extended period for reply we eply received by the Office later than three months after the digital patent term adjustment. See 37 CFR 1.704(b).	ILING DATE OF 37 CFR 1.136(a). In n nication. Itory period will apply ar ill, by statute, cause the	THIS COMMUNIO o event, however, may a r and will expire SIX (6) MON application to become AB	CATION. reply be timely filed ITHS from the mailing date of this of the second second control of the second co	·			
Status								
1)[🛛	Responsive to communication(s) filed	on 31 December	er 2001.					
· · · · · · · · · · · · · · · · · · ·)⊠ This action i						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice	e under <i>Ex parte</i>	Quayle, 1935 C.D). 11, 453 O.G. 213.				
Dispositi	on of Claims							
4)🖂	4)⊠ Claim(s) <u>1-18</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-18</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[Claim(s) are subject to restricti	on and/or election	n requirement.					
Applicati	on Papers							
9)[The specification is objected to by the	Examiner.						
10)🛛	The drawing(s) filed on <u>10 April 2002</u> i	s/are: a)⊠ acce	epted or b)⊡ obje	cted to by the Examiner.				
	Applicant may not request that any object	ion to the drawing	(s) be held in abeyar	nce. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including t	he correction is re	quired if the drawing	(s) is objected to. See 37 C	FR 1.121(d).			
11)[The oath or declaration is objected to	by the Examiner.	. Note the attached	d Office Action or form P	TO-152.			
Priority u	nder 35 U.S.C. § 119							
	Acknowledgment is made of a claim fo ☐ All b)☐ Some * c)☐ None of:	or foreign priority	under 35 U.S.C. §	§ 119(a)-(d) or (f).				
	1. Certified copies of the priority d	ocuments have l	peen received.					
	2. Certified copies of the priority d	ocuments have l	peen received in A	Application No				
	3. Copies of the certified copies of	f the priority docu	ıments have been	received in this Nationa	l Stage			
	application from the Internation	al Bureau (PCT l	Rule 17.2(a)).					
* S	ee the attached detailed Office action	for a list of the c	ertified copies not	received.				
Attachmen	c(s)							
	e of References Cited (PTO-892)			Summary (PTO-413)				
_	e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or P	· ·		s)/Mail Date nformal Patent Application (PT	O-152)			
	No(s)/Mail Date	,	6) Other:					

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-18 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 5, 6, 11, 12, 17, and 18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 5, applicant has variously recited "the predefined SMI-compatible task" [line 1] and "a predefined SMM-compatible task" [line 4]. The parent of claim 5 also recites "a predefined SMM-compatible task" [claim 4, line 3]. Additionally, applicant has recited generating "a SMI request" in line 3 of claim 5. It is noted that applicant has already recited generating "a SMI request" in claim 1. It is unclear whether these limitations are intended to be distinct from one another, or references to the same limitation. Applicant is reminded to use consistent terminology to properly distinguish between new limitations and those previously recited.

Claim 6 recites the limitation "the SMI generation register" in line 1. There is insufficient antecedent basis for this limitation in the claim. There is no prior recitation of an SMI generation register in the claim or its parents (claims 4 and 1). Additionally, applicant has recited "an SMM-compatible task" in line 2. Applicant has already recited a predefined SMM-compatible task and a predefined SMI-compatible task in claim 5. It is unclear whether these limitations are

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intended to be distinct from one another, or references to the same limitation. Applicant is reminded to use consistent terminology to properly distinguish between new limitations and those previously recited.

Claims 11, 12, 17, and 18 are rejected on similar grounds as those of claims 5 and 6.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-18 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 1-18 recite a method and machine readable medium with instructions that implement the method. Applicant's claimed invention is directed towards a method for executing a process. Examiner notes that the apparent intent of applicant's claimed method is not to achieve some result from the execution of the process, but rather the execution of the process itself. As such, applicant's claimed invention is merely an abstract idea that does not produce a useful, concrete, and tangible result. Therefore, claims 1-18 are non-statutory.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 1 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Hobson, U.S. Patent No. 6,122,748.

Regarding claim 1, Hobson teaches:

generating a SMI request under ACPI control [col. 5, lines 35-48];

changing an operation mode of a processor to the SMM in response to the SMI request; and

executing a resume ACPI control process to return the processor to ACPI control after the process is complete [col. 5, lines 54-62].

Regarding claim 13, Hobson teaches the method of claim 1. Hobson also teaches the machine readable medium with instructions to implement the claimed method. Hobson also teaches that while in SMM, the processor executes tasks [col. 6, lines 60-64, configuring].

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 3, 7-9, 14, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hobson in view of Intel [Intel's SL Enhanced Intel486 Microprocessor Family, June 1993].

Regarding claim 2, Hobson teaches the method of claim 1, but does not teach saving processor state map information in a first area of a memory upon reception of the SMI request.

Intel teaches that upon generating an SMI, the processor saves the state of the system or SMRAM [page 2, "System-Level Power Management"].

It would have been obvious to one of ordinary skill in the art to combine the teachings of Hobson and Intel by saving the processor state map information in a first area of memory, as taught by Intel. Hobson's disclosure teaches a processor transitioning between an ACPI control and an SMM, and teaches that exemplary processors include those from the Intel 80X86 family [col. 3, lines 40-42]. Since the disclosure of Intel is directed towards the same family of processors, it would have been obvious to one of ordinary skill in the art that the transitioning between ACPI and SMM would have been implemented in the manner taught by Intel.

Regarding claim 3, Hobson teaches setting SMI enable in a SMI generation register [col. 4, lines 14-18].

Regarding claims 7-9, Hobson and Intel teaches the method of claims 1-3. Hobson also teaches that while in SMM, the processor executes tasks [col. 6, lines 60-64, configuring]. Additionally, it would have been obvious to one of ordinary skill in the art to delegate tasks to various processors to achieve faster execution.

Regarding claims 14 and 15, Hobson and Intel teaches the method of claims 2 and 3.

Hobson and Intel also teaches the machine readable medium with instructions to implement the claimed method.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Zimmer et al., U.S. Patent No. 6,775,728 B2;

Wang, U.S. Patent No. 6,895,517 B2.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ji H. Bae whose telephone number is 571-272-7181. The examiner can normally be reached on Monday-Friday, 10 am to 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Lee can be reached on 571-272-3667. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ji H. Bae Patent Examiner Art Unit 2115 <u>ii.bae@uspto.gov</u> 571-272-7181

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